1951 **File No.** G.B.L. 1551

2 CLASS P. W. **DEPARTMENT**

K. **BRANCH**

Subject:— Grid Scheme

Belgaum.

Electrification

Hukeri, Sankeshwar, Chikodi

Konnur and Gokak and Bailhongal

Diesel Electric Scheme for —

B [K] 1951

File No. GBL 1551

[illegible] Sect. Ship. 50 A.

K. Br.

198 - 4,00,000 - 7-50 — K2*
(G. R. (S. D. No. 2403, dated 22-6-22.]

Std. 85

DOCKET SHEET

Subject :—

File No. GBL 1551 K

P. W. DEPT.

K BRANCH

References :—

Date.	To whom sent	Notes and instructions.
30/6/51	D.S.	Pl. issue u.o. to F.D.
7.7.51	Rly Bd	Pl. return U.O. note FR.
16/7/51	D.S.	Pl. issue u.o. to F.D. urgently
30/7/51	D.S.	Pl. issue u.o. to F.D. immediately
27/8/51	D.S.	Pl. issue draft hg R. at: pp. 21-22 of C/S. (C Class) U.O. stamp wf
		F.D.
18/9/51		Record (A)

GBL 1551
43846

P. W. D.
K

Submitted.

2. The schemes for the electrification of (1) Hukeri, Sankeshwar, Chikodi, Konnur, and Gokak, (2) Bailhongal in the Belgaum Dist. have been administratively approved under G.R. No.9622/36, dated 16-11-48 at the cost of Rs.14,07,900 and Rs.3,52,000 respectively. Due to the increase in the price of commodities the Ch.Engr., Bombay Electric Grid, submitted revised estimates for certain items and they were approved as below.

	Amount for certain items according to original estimate. Rs.	Revised amount. Rs.
Hukeri, Sankeshwar, etc. towns.	10,58,615	13,07,687
Bailhongal.	1,30,414	1,59,677

vide G.L. No.8993/36-El(I), dated 19-6-50. The items like power house bldg. land etc. were not included in the above amounts of revised admve.approval. The cost of bldg. material and labour has gone up since the schemes were administratively approved on 16-11-48. The originally approved estimate included a provision of Rs.60,000 for these items at Hukeri etc. and Rs.49,000 at Bailhongal. The estimate for the same items has now to be revised to Rs.93,000/- and Rs.85,200/- respectively, on account of the reasons given above. The prices of copper steel etc. have also shot up since the revised cost of certain items was approved on 19-6-1950 as shown above. The C.E., B.E.G., has therefore submitted the revised estimates amounting to Rs.18,27,422 for electrification of Hukeri, Sankeshwar, Chikodi, Konnur and Gokak and Rs.5,16,442 for the electrification of Bailhongal. Please see the comparative statement of the cost of these schemes at p. 7 ante. of c.5.

3..

3. The revenue forecast, on the basis of which the schemes were administratively approved originally, had also been revised as a result of the increase in interest on depreciation charges on account of higher capital cost and larger operation and maintenance charges. Please see the original revenue forecast slip F in file No.9622/36 below and the revised revenue forecast at pp. 11 & 13 of c.s. ~~below~~. Both the schemes taken together become self supporting in the 10th year of their working.

4. Tariffs originally proposed for these schemes have also been revised and the rates sanctioned for Ratnagiri Dist. have been adopted for these schemes. The revised rates are higher than those originally proposed. Pl. see the original tariff slip R (Item 6) ~~below~~ and the rates now adopted slip B below.

5. As the capital cost and revenue forecast of the schemes have materially changed revised administrative approval is necy. in this case which may be accorded in u.o. consultation with the F.D. as per draft put up for approval. Please see the concluding remarks in his letter, portion marked 'A' on p. 19 of C.S. which show that the estimates are approximate.

P-21 c/s

28/6/51

28/6/51

(to CO B.B. & D.E. CI)

29-6-51

K 10/7

GJP. 28/6/51

P. W. D.

File No. GBL 155

Serial No. 593500

30/6/51

10/7/51

K

9-7-51

Secy.

U.O. to the F.D. dt. 2nd July 1957 (with file No. 9622/36 (GBL 15-51) and plans & estimates)

F.D. III

The P.W.D may be requested to forward hastened sundry copy P.W.D G.L. No 8993/36-EL(I) dated 19-6-50.

A-8 (F)

reply to P.W.D dated 7.7.57

FINANCE DEPARTMENT
No. III
Date 3.7.51
Serial No 7664

3

GBL 15-5-51
59280

P.W.D.

KBr

Submitted with refee. to the Fd. note on p-2 ante

2. This may be returned n.o. to the Fd. with the intimation that file No. 9993/36 II containing the G.L. in question has been put up as f.p. of file No. GkH 105-1/541446 reg. electrification of Dharangaon Erandol & Pachora, which has been referred n.o. to that Deptt. on 4-7-51

FINANCE DEPARTMENT
File No. III
Date 18.7.51.
Serial No. 7167

14/7/51

12/7/51 Urgent

A.A.S.

T.O. to the F.C. dt: 17th July 1951
(with the T.O 9622/36 + plans & estimates)

4

ED

III

The P.W.D file no GKH 1057/54146 has been returned to this deptt on 11-2-57 along with its F.P.

2 The P.W.D. may kindly forward the file no 8943/36-EL(I) to this deptt

Pws 20/7

21/7

A.S (F) 25/7

P. W. D.
Diary No. GBL 1551
Journal No. 64397

K

24-7-57

Shri Lulla
21/7/57 Reg

5

GB&I 551
G4397

K.Bm.

P.W.D

File NO 8993/36, required by the F.D. is put up as F.P. to case NO G1KH-1051, and is under submission to H.M. on 25-7-51 This file will be sent to the Fin. Deptt. on its return.

2/- Please see letter at p 23 cs. dt the 23.7.51 from the C.E., B.E.G., which is self-explanatory. For the reasons stated therein, the C.E. has requested Govt. to authorise him to incur an expenditure of Rs 73,000/- for civil works at Hukeri, in case, Govt. considers that it will take time to issue necessary orders in the matter. Please see encl A at p 23 cs.

3/- Please see n.n. at p 1-2 dt the 28-6-1951 The CE's proposal may be accepted in consultation with the Fin. Deptt. If, however Fin. Deptt. has no objection to give revised adm. sanction for the electrification of the scheme as a whole, no sanction orders are necessary on CE's letter at p 23 of cs.

Chalo 11/ File NO 8993/36 part up below 27/7/51 JS

p 28(1)(5) 1/216 Show 2/1

FINANCE DEPARTMENT
Fl. No III
Date 1-8-51.
Serial No 7269

Chalo F.D Very Urgent

Plus file NC 8993/36 ~~Part~~ II

U.O.No. of the F.D. dt. 31st July 1951 (with files Nos. 9622/36 and 8993/36 - Pt. II

Finance department

III

The P.W.D proposes to accord revised administrative approval to the Schemes of electrification of (1) Hulkeri, Sankeshwar etc and (2) Bailhongal in the Belgaum distt. It will be seen from the P.W.D. note dated 30.6.57 that original estimates were approved at Rs 14,07,900 and Rs 3,52,000 respectively. These estimates were again revised and approved for Rs 17,44,019 and Rs 4,30,217. In view of increase in prices and also in view by fact of Power House buildings were not included in the revised estimates, P.W.D. proposes by sanctioning the estimates at Rs 18,27,422 and Rs 5,16,442 respectively. It is further stated that expdr. in the current year will not exceed the budgeted provision of Rs 5,97,700/- made in the current financial year.

2 In the circumstances explained by the P.W.D, the orders proposed by the Spl at page 21/c may be agreed to.

Pans 18/8/57

14/8

14/8/57

Note to P.W.D. dated 16-8-57

K 17/8

S.P.W.D. GBL 1551 71566

Shri Sule 17/8/57

K 17-8-57

Pers Return to P.W.D. with file

7

GBL 1551
71131, 71566

P. W. D.
K

Submitted with ref. to the O.N. dated the 27-7-51.

2. Attention in this con. is invited to the O.N. p1-2 dated the 28-6-51, which fully explains the case: The F.D. having agreed p6 to this Deptt.'s proposal to give revised admve. approval for the electrification of Hukeri, Sankeshwar Chikodi, Konnur, Gokak at an estimated cost of Rs.18,27,422/- and for Bailhongal at an estimated cost of Rs.5,16,442. Draft Reso. put up on p. 21 C.S. may issue, if approved.

Thro: B B.

GJP. 21/8/51

21/8/51

kj 24/8/51

D.S.

Issue Sanction

198—4,00,000—7-50—K2
(G. R. G. O. No. 2403, dated 22-6-22.]

DOCKET SHEET

Subject :-

File No. GBL 1551 K

P.W. DEPT.

K BRANCH.

References :—

Date.	To whom sent	Notes and instructions.

Proposed Diesel Electric Scheme for the towns of Hukeri Sankeshwar, Chikodi, Konnur & Gokak in Belgaum District.

1. Features of the Towns:-

Hukeri:- The town of Hukeri is in Hukeri Taluka and is connected by an all weather road from Gokak to Sankeshwar The nearest Railway Station is Hukeri Road which is 11 miles to the east of Hukeri. The total area covered by the town within panchayat limits is 0.156 sq.mile.

Sankeshwar:- The town of Sankeshwar is in Hukeri Taluka & is about 8 miles to the west of Hukeri town. It is a commercial town situated on the Poona-Bangalore Road, the total area covered by it being 0.17 sq.mile.

Chikodi:- The town of Chikodi is in Chikodi Taluka. The nearest railway station is Chikodi Road, 11 miles to the east of the town. The total area covered by the town is 0.175 sq.mile.

Konnur:- The town of Konnur is in Gokak Taluka, the nearest Railway Station being Gokak Road, ½ mile to the West of the town. The total area covered by the town is 0.05 sq. mile.

Gokak:- The town of Gokak is in Gokak Taluka, the nearest Railway Station being Gokak Road, 7 miles to the west of the town. Gokak being a trade centre is connected with other important towns in Belgaum District by all weather roads. The town covers an area of 0.36 sq. mile.

2. Population:-

Hukeri:- The population of Hukeri was 7,700 in 1941.

Sankeshwar:- The Population of Sankeshwar was 11,169 in 1941

Chikodi:- The population of Chikodi was 10,700 in 1941.

Konnur:- The population of Konnur was 5,000 in 1941.

Gokak:- The population of Gokak was 13,826 in 1941

3. Scope of Electrical Development:-

As a part of the first stage of electrical development under the post war reconstruction schemes in the state, Government have approved the electrification of these five

This proposal provides for the installation of

power station at Hukeri with the necessary equipment for generating electricity at 400/~~500~~ 440 volts, 50 cycles, A.C., and stepping up this voltage to 11 kV., transmission to the transformer substations at 11 kV. and distribution for domestic, industrial and street lighting purposes in the important parts of the towns at 400/230 volts. Details of the scheme are as under:-

(a) Power House:- The land necessary for the building of the power station & laying out ~~xx~~the necessary auxiliaries will be acquired at the North Western end of the town. The power station building and layout of the machinery to be installed inside the building will be as shown in Drawing No.DS.II/195 enclosed.

(b) Generation:- In the initial stage, one diesel engine alternator set of 200 kW. and two of 100 kW. each will be installed with the necessary auxiliaries. With the ~~xxxxxxx~~ growth of the load, it is proposed to install an additional set when necessary later. Though the cost of this extension is not provided in this estimate, the design of the power station building has been made so as to accommodate the fourth set.

(c) Outdoor step-up substation:- The voltage is stepped up to 11,000 Volts by the installation of 2 Nos. of 200 kVA. transformers, 420/11,000 volts in the power house compound.

(d) Transmission:- From the step-up station in the power-house, two 11 kV feeders are taking out, one along the main road to feed transformer substation in the load centres in Hukeri town and the other branching off to feed Transformer sub-stations in the load centres in Sankeshwar, Chikodi, Konnur and Gokak towns. The feeders will be run on rail poles 50/60 lb. section. The conductors will be of 6 SWG. copper.

(e) Distribution:- The pole mounted outdoor transformer sub-stations of capacities of 75,50 & 25 kVA will be at the

load centres of the towns. From each of these substations, a three phase four wire distribution will be taken over the important streets of the town to feed industrial & domestic consumers. The distribution lines will be taken wherever possible on the same poles carrying 11 kV lines and singly along routes where no H.T.line is taken. Copper conductors of different sizes suitable for giving proper voltage regulation on the different feeders will be used. A separate phase wire from each substation is provided for street light conductors, the operation of which will be controlled at the powerhouse and substations. Guarding between H.T. & L.T.lines and L.T.lines and the ground is also provided.

(f) Service connections:- On a moderate estimate, it is anticipated that 1333 domestic consumers, 441, bazar lamps 50 industrial loads, and 590 street lights will be connected up during the first five years of operation. This includes the cost to the Government on such connections.

(g) Testing Apparatus:- The estimate includes the provision of necessary workshop and other tools for the power station & transmission & distribution lines and also the important instruments required for the operation and maintenance of the installations.

HBK/7.V.51.

STATEMENT NO.I. - (HUKERI)

Items.	Amount approved administratively for all the towns. Rs. I	Interim sanctions to Revised Estimates Rs. II	Amount as per present estimates. Rs. III
1. Sub-estimate I:- (a) Power Plant etc.	3,22,000	4,21,545	4,45,520
(b) Buildings etc.	60,000	60,000	93,000
2. Sub-estimate II:- Transmission and Distribution lines.	6,96,600	12,62,474	8,63,750
3. Sub-estimate III:- Transformers etc.	3,22,000		4,16,080
Sub-estimate IV:- Testing apparatus.	7,300		9,072
TOTAL:-	14,07,900	17,44,019	18,27,422

Rise of III over II = 4.7%.

* Pl. see Note on next page.

HBK/7.V.51.

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STATEMENT I-A.

Electrification of Bailhongal Town in Belgaum District.

Items.	Amount approved administratively for the Scheme. Rs. I.	Amount sanctioned as per revised estimates Rs. II.	Amount as per present estimate. Rs. III.
1. Sub-estimate I:- (a) Power Plant and Machinery.	1,78,780	2,27,607	2,35,180
(b) Building cost etc.	49,000	49,000	85,200
2. Sub-Estimate II:- Distribution lines etc.	50,590	1,53,610	88,350
3. Sub-estimate III:- Special structures, service connection etc.	66,280		98,640
4. Sub-estimate IV:- Testing Apparatus.	7,300		9,072
TOTAL: Say Rs...	3,51,950 3,52,000/-	4,30,217	5,16,442/-

Rise of III over II = 20%.

HBK/7.V.51.

Note for column II of Statement I (Hukeri):

Item 1(a), 4,21,545 = Rs. 324772 (Sanction of 31-10-49)

+ 39870 (Sanction of 19-6-50)

+ 56903 (5% + 8% as adopted in nursery schemes including the charges on building.

Item 2,3,&4 12,62,474 = Rs. 13,07,687 (Sanction of 19-6-5 including 5%+8% charges).

- 39,870 (Included in Item 1(a)

+5343 (5%+8%Charges on a

Note for column II of statement I-A(Bailhongal):

Item 1(a), 2,27,607 = Rs. 1,89,571(Sanction of 9-6-50)

+ 5,350(Sanction of 19-6-50)

+ 32,686(5%+8% as adopted in nursery schemes including these charges on bu building).

Item 2, 3 & 4, 1,53,610= Rs. 1,59,677 (Sanction of 19-6-50) including 5%+8% charges

- 5,350 (Included in item 1(a))

+ 717 (5%+8% charges on above).

Note for column II of Statement I (Hukeri):

	Rs.		
Item 1(a),	4,21,545	= 324772	(Sanction of 31-10-49)
		+ 39870	(Sanction of 19- 6-50)
		+ 56903	(5% + 8% as adopted in nursery schemes includi the charges on building.
Item 2,3,&4	12,62,474	= 13,07,687	(Sanction of 19-6- including 5%+8% charges).
		- 39,870	(Included in Item 1(a)
		+5343	(5%+8%Charges on above

Note for column II of statement I-A(Bailhongal):

	Rs.		
Item 1(a),	2,27,607	= 1,89,571	(Sanction of 9-6-50)
		+ 5,350	(Sanction of 19-6-50)
		+ 32,686	(5%+8% as adopted in nursery schemes includ- ing these charges on b building)
Item 2, 3 & 4	1,53,610	= 1,59,677	(Sanction of 19-6-50) including 5%+8% charges)
		- 5,350	(Included in item 1(s))
		+ 717	(5%+8% charges on above).

STATEMENT II.

H U K E R I.

Fuel Cost. Fore cast:-

Rs. 250/ Ton in the 1st year.
Rs. 250/-5% =238/Ton in the 2nd year.
Rs. 250-10% =225/Ton in the 3rd,4th & 5th year.
Rs. 225-5%=Rs. 214/Ton in the 6th & 7th year.
Rs. 225-10% =Rs. 202/Ton in the 8th & 9th year.
Rs. 225-15% =Rs. 191/Ton in the 10th year.

BASIS FOR TARIFF RATES:- As per rates and charges for Ratnagiri District with effect from 1-3-1951.

Year	Probable M.D. in kW.	Probable Revenue - Rs. Lighting	Power	Total	Probable sale of Units kWH Lighting	Power	Total	Total units Generated kWH	Working Cost Rs.	Depreciation and interest Rs.	Nett Profit or Loss. Rs.
1st	69	18,872	38,000	56,872	30,946	157,200	188,146	228,496	87,076	119,018	- 1,49,222
2nd	138	47,178	74,395	121,574	77,365	314,440	391,805	475,811	105,616	"	- 1,03,060
3rd	173	75,486	87,182	162,668	116,046	377,328	493,374	599,120	112,736	"	- 69,086
4th	196	84,922	98,087	183,009	139,257	424,494	563,751	684,580	119,106	"	- 55,115
5th	218	94,358	108,981	203,339	154,730	471,660	626,390	760,645	128,506	"	- 44,185
6th	234	101,435	114,787	216,222	166,335	507,035	673,370	817,694	129,666	"	- 32,462
7th	250	108,512	122,793	231,305	177,940	542,410	720,350	874,744	133,666	"	- 21,379
8th	267	115,589	127,859	243,448	189,545	577,785	767,330	931,793	135,836	"	- 11,406
9th	283	122,666	135,685	258,351	201,150	613,160	814,310	988,842	139,676	"	- 343
10th	305	132,102	143,039	275,141	216,623	660,327	876,950	1,065,230	141,906	"	+ 14,217
	TOTAL	901,121	1050,808	1951,929					1233,790	1190,180	- 472,041

PSN/14.5.
checked

(5)

STATEMENT NO.II - A.

Fore-cast for BAILHONGAL POWER HOUSE.

Fuel Cost:-

Rs.250/Ton in the 1st year.
Rs.250-5% =238/Ton in the 2nd year.
Rs.250-10% = 225/Ton in the 3rd,4th & 5th year.
Rs.225 - 5% = Rs.214/Ton in the 6th & 7th year.
Rs.225 -10% = Rs.202/Ton in the 8th & 9th year.
Rs.225 -15% = Rs.191/Ton in the 10th year.

BASIS FOR TARIFF RATES:- As per rates & charges for Ratnagiri District with effect from 1-3-1951.

Year	Probable M.D. in kW.	Probable Revenue - Rs. Lighting	Power	Total	Probable sale of Units kWH Lighting	Power	Total	Total units generated kWH	Working Cost Rs.	Depreciation and interest Rs.	Nett Profit or Loss Rs.
1st	17.48	5,178	12,927	18,105	8,530	55,950	64,480	89,263	37,989	35,037	- 54,921
2nd	36	12,945	25,264	38,209	21,324	111,900	133,224	168,319	43,847	"	- 40,675
3rd	45	20,711	29,550	50,261	31,986	134,280	166,266	206,317	45,947	"	- 30,723
4th	51	23,300	33,244	56,544	38,384	151,065	189,449	232,977	47,937	"	- 26,430
5th	56.6	25,889	36,938	62,827	42,649	167,850	210,499	257,185	49,737	"	- 21,947
6th	61	27,831	38,838	66,669	45,848	180,439	226,287	275,341	50,077	"	- 18,445
7th	65	29,773	41,548	71,321	49,047	193,028	242,075	293,497	51,367	"	- 15,083
8th	69	31,715	43,178	74,893	52,246	205,617	257,863	311,653	51,417	"	- 11,561
9th	74	33,657	45,820	79,477	55,445	218,206	273,651	329,810	52,637	"	- 8,197
10th	79	36,245	48,213	84,458	59,710	234,991	294,701	354,070	52,967	"	- 3,546
		247,244	355,520	602,764					483,922	350,370	-231,528

STATEMENT NO.II - A.

Fore-cast for BAILHONGAL POWER HOUSE.

uel Cost:-
Rs.250/Ton in the 1st year.
Rs.250-5% =238/Ton in the 2nd year.
Rs.250-10%= 225/Ton in the 3rd,4th & 5th year.
Rs.225 - 5% = Rs.214/Ton in the 6th & 7th year.
Rs.225 -10% = Rs.202/Ton in the 8th & 9th year.
Rs.225 -15% = Rs.191/Ton in the 10th year.

BASIS FOR TARIFF RATES:- As per rates & charges for Ratnagiri District with effect from 1-3-1951.

Year	Probable M.D. in kW.	Probable Revenue - Rs. Lighting	Power	Total	Probable sale of Units kWH Lighting	Power	Total	Total units generated kWH	Working Cost Rs.	Depreciation and interest Rs.	Nett Profit or Loss Rs.
1st	17.48	5,178	12,927	18,105	8,530	55,950	64,480	89,263	37,989	35,037	- 54,921
2nd	36	12,945	25,264	38,209	21,324	111,900	133,224	168,319	43,847	"	- 40,675
3rd	45	20,711	29,550	50,261	31,986	134,280	166,266	206,317	45,947	"	- 30,723
4th	51	23,300	33,244	56,544	38,384	151,065	189,449	232,977	47,937	"	- 26,430
5th	56.6	25,889	36,938	62,827	42,649	167,850	210,499	257,185	49,737	"	- 21,947
6th	61	27,831	38,838	66,669	45,848	180,439	226,287	275,341	50,077	"	- 18,445
7th	65	29,773	41,548	71,321	49,047	193,028	242,075	293,497	51,367	"	- 15,083
8th	69	31,715	43,178	74,893	52,246	205,617	257,863	311,653	51,417	"	- 11,561
9th	74	33,657	45,820	79,477	55,445	218,206	273,651	329,810	52,637	"	- 8,197
10th	79	36,245	48,213	84,458	59,710	234,991	294,701	354,070	52,967	"	- 3,546
		247,244	355,520	602,764					483,922	350,370	-231,528

15

Letter.

No.Elg.(D.&S.)II/14057
Electric Grid Offices,
Mercantile Bank Bldg.,Fort
Bombay 1: 18th May 1951.

To

The Secretary to Government,
Public Works Department,
Bombay.

Subject:- Detailed estimates for the electrification of Hukeri, Sankeshwar, Chikodi,Konnur, Gokak and Bailhongal towns in Belgaum District

---

I forward herewith in quadruplicate separate detailed estimates with a note* for revised administrative approval by the Government for the electrification of (i)Hukeri, Sankeshwar, Chikodi, Konnur & Gokak towns and (ii) Bailhongal town in Belgaum District.

*pp 1-5 to be printed as accompt.

In Government Resolution No.9622/36 of 6-11-48, Government gave administrative approval to the electrification of these towns at the following cost:-

C SR.P/K 9622/36 P 1-5-52

	Hukeri,Sankeshwar, Chikodi, Konnur, ~~&~~ Gokak.	Bailhongal
Sub-estimate I - Power Plant etc.	Rs.3,82,000	Rs.2,27,780/
Sub-estimate II - Transmission and Distribution Lines.	Rs.6,96,600	Rs. 50,590/
Sub-estimate III - Transformers, switchgear etc	Rs.3,22,000	Rs. 66,280/
Sub-estimate IV.- Testing apparatus.	Rs. 7,300	Rs. 7,300/
	Rs.14,07,900/-	Rs.3,51,950/-
		Say.3,52,000/-

Under their letters Nos.8993/36-El(1) of 31-10-49 and 8993/36-El(1) of 9-6-50, Government were pleased to sanction the expenditure of Rs.3,24,772/- for Power Plant at Hukeri and Rs.1,89,571/- at Bailhongal exclusive of 5% for contingencies and 8% for other charges which have been adopted in the nursery schemes hitherto.

Under their letter No.8993/36-El(1) of 19-6-1950,

Government were pleased to sanction the placing of orders for transmission and distribution line materials etc. esti-mated at Rs.13,07,687/- for Hukeri and Rs.1,59,677/- for Bailhongal inclusive of the contingencies and other charge mentioned in the previous paragraph.

The above two interim sanctions being only for materials of long delivery, the matter of the remaining items like Power House Building, land etc. were not dealt with previously.

As Government are aware, cost of building materia and labour have also risen steeply. The administratively approved sanction dated 6-11-1948 allowed for Rs.60,000/- for Hukeri and Rs.49,000/- for Bailhongal for these items, which have now to be revised to Rs.93,000/- and Rs.85,200/- respectively.

Since submitting the first revised estimates for transmission and distribution line materials under this office letter No.Elg.356/6530 of 12-4-50, the prices of copper, steel and rubber have shot up. The price for copper wire has been estimated 20% higher than the last year's rate contract rate for the same in the absence of a new rate contract and in view of the shortage of raw materials. For similar reasons, the rate for V.I.R.cables has been estimated 33% higher than last year's rate-contract rate.

A comparative statement of the cost of these schemes under each sub-estimate administratively approved by the Government and as now worked out is enclosed vide statement No.I for Hukeri and I-A for Bailhongal.

The increase in interest and depreciation charges on account of higher capital cost & larger operation and maintenance charges due to:-

(a) the price of fuel oil being about Rs.250/- per ton at site against Rs.165/- per ton assumed previously in the administratively approved estimates and

(b) the increased charges on estab-

increased cost of labour, necessitate a revision; also of the Revenue Forecast on the basis of which the scheme was administratively approved.

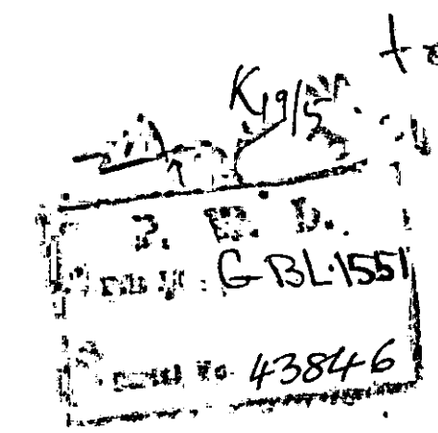
The tariff rates assumed for calculating revenue are therefore taken as those which have been sanctioned by the Government for Ratnagiri District and which are inforce from 1-3-1951.

The Revenue forecast for the first ten years worked out on the above basis is shown in statement II for Hukeri and II - A for Bailhongal. From these forecasts it will be seen that like original proposal with old tariff the scheme for Hukeri is showing profit in the tenth year of operation with the new tariff and that for Bailhongal is showing a loss. But as was pointed out in the original proposal the schemes for Hukeri and ~~Bil~~ Bailhongal have to be considered together and when so done the loss at Bailhongal is wiped out and the schemes jointly are expected to show a profit of Rs.10,671/- in the tenth year of operation.

Since both the capital cost and Revenue forecast of the scheme have materially changed, revised administrative approval to the scheme is necessary, which may kindly be accorded. It is necessary to mention that in view of the frequent fluctuations in the present market conditions, the rates assumed in the estimates for materials yet to be ordered are only those as are now known and therefore to be treated as approximate.

17/5/51.

HBK/11.V.51. Chief Engineer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43846

Electrification of Hukeri, Sankeshwar, Chikodi, Konnur, Gokak and Bailhongal towns in the Belgaum Dt. Admve..approval to the revised estimates for -

Govt. of Bombay.
P. W. D.
Reso.No.GBL 1551
B. C. (Bombay No.1
28 ~~June~~ August 1951

Read -

G.R. No.9622/36, dated the 6-11-48.

G.I.No.8993/36-El(I), dated the 31-10-49,

G.O. 6-5-50. and 19-6-50. to the Elec. Commsn. with the Govt. of Bombay.

Letter No.Elg(D & S)II/14051, dated the 18-5-51, from the Ch.Engr., Bombay Elec. Grid, as under:-

(Enter)

RESOLUTION.- The revised estimates for the electrification of the following towns in the Belgaum Dt. are approved administratively as shown below:-

Electrification of:-		Revised estimated cost. Rs.
(1) Hukeri, Sankeshwar, Chikodi, Konnur and Gokak.	...	18,27,422
(2) Bailhongal.	...	5,16,442

2. Expdre. on these schemes during the current year should not exceed the sanctioned grant of Rs.5,97,700/- for them under the head "81-A Capital Outlay on Electricity Schemes - Post War Reconstruction and Development Programme".

By order of the G. of B.,

Dy.Secy. to Govt.

To.....

To

The F.D
The D.D
The R.D
The ~~H.& L.G.D.~~ LSG & PHD
The Collr. of Belgaum.
The C.E., B.E.G. (with plan & estimate)
The S.E., S.C
The Elecl.Engr.to Govt.
The Ex.Engr., ~~Southern~~ Central Elecl. Dn.
The A.G., Bombay

28/6/51 ... Panel Bd.

GJP.
28/6/51

23

No.Elg(D & S)II/ 66/20925A
Electric Grid Offices,
Mercantile Bank Building, Fort,
Bombay 1: 23rd July, 1951.

To

The Secretary to Government,
Public Works Department,
BOMBAY.

Sub:- Electrification of Hukeri, Sankeshwar, Chikodi, Konnur, Gokak & Bailhongal Towns in Belgaum District.

I invite your attention to this orrice letter No.Elg(D & S)II/14051/18-5-51 of enclosing detailed revised estimates for electrification schemes for Hukeri and Bailhongal in Belgaum District and request that early sanction may be accorded.

In case it is considered that the disposal will take some more time, I shall be obliged if Government authorise me to incur an expenditure of Rs.93,000/- as stated under items 1 and 2 in Sub estimate I for Hukeri, to enable me to place orders in proper time for Civil work at Hukeri, the tenders for which have been already received, and thus help in avoiding any further rise in building materials and labour costs.

TJ Muchandaran
21.7.51.
Chief Engineer.

BM/21.7.

K 23/4

GBL 1551

636857

25

No.Elg.(D.& S.)II/86/ 2325
Electric Grid Offices,
Mercantile Bank Building, Fo
Bombay 1: 13 August, 19

To

The Secretary to Government,
Public Works Department,
Bombay.

Sub:- Electrification of Hukeri, Sankeshwar, Chikodi, Konnur, Gokak and Bailhongal towns in Belgaum Dist.

Ref:- This office letter No.Elg(D.& S.)II/86/ 20925 A dated 23.7.1951.

Please refer to my above communication in which I requested alternatively that Government be pleased to authorised me as early as possible to incur an expenditure of Rs. 93,000/- as stated under Item 1 and 2 in Sub-estimate for Hukeri in anticipation of Revised administrative approv to my proposals for same forwarded to you under letter No.Elg(D.& S.)II/14051 dated 18th May 1951

The site for power house is due to be handed over on 31st inst. Tenders for Power House buildi work are already received and it is desirable to accept ~~immediately~~ without delay the lowest tender right now so that thereafter preliminaries, the site is handed over to the contractor as soon as delivered to this Department

Chief Engineer.

PG.11.VIII.51.

GBL651

7/11/31

14-8-37

Electrification of Hukeri, Sankeshwar, Chikodi, Konnur, Gokak and Bailhongal towns in the Belgaum District: Administrative approval to the revised estimates for

Government of Bombay.
Public Works Department.
Resolution No. GBL 1551.
Bombay Castle (Bombay No.1)
28th August 1951.

Government Resolution No. 9622/36, dated the 6th November 1948.

Government Letters No. 8993/36-El(I), dated the 31st October 1949, 9th June 1950 and 19th June 1950 to the Electrical Commissioner with the Government of Bombay.

Letter No. Elg(D & S)II/14051, dated the 18th May 1951, from the Chief Engineer, Bombay Electric Grid, as under:-

Printed an Impani-

" I forward herewith in quadruplicate separate detailed estimates with a note* for revised administrative approval by the Government for the electrification of (i) Hukeri, Sankeshwar, Chikodi, konnur and Gokak towns and (ii) Bailhongal town in Belgaum District.

In Government Resolution No. 9622/36 of 6th November 1948, Government gave administrative approval to the electrification of these towns at the following cost:-

	Hukeri, Sankeshwar, Chikodi, Konnur, and Gokak.	Bailhongal
Sub-estimate I - Power Plant etc.	Rs. 3,82,000	Rs. 2,27,780/-
Sub-estimate II - Transmission and Distribution Lines.	Rs. 6,96,600	Rs. 50,590/-
Sub-estimate III - Transformers, switchgear etc.	Rs. 3,22,000	Rs. 66,280/-
Sub-estimate IV - Testing apparatus.	Rs. 7,300	Rs. 7,300/-
	Rs. 14,07,900/-	Rs. 3,51,950/-
		Say 3,52,000/-

Under their letters Nos. 8993/36-El(I) of 31st October 1949 and 8993/36-El(I) of 9th June 1950, Government were pleased to sanction the expenditure of Rs. 3,24,772/- for Power Plant at Hukeri and Rs. 1,89,571/- at Bailhongal exclusive of 5% for contingencies and 8% for other charges which have been adopted in the nursery schemes hitherto.

Under their letter No. 8993/36-El(I) of 19th June 1950, Government were pleased to sanction the placing of orders for transmission and distribution line materials etc. estimated at Rs. 13,07,687/- for Hukeri and Rs. 1,59,677/- for Bailhongal inclusive of the contingencies and other charges mentioned in the previous paragraph.

The above two interim sanctions being only for materials of long delivery, the matter of the remaining items like Power House Building, land etc. were not dealt with previously.

As.....

As Government are aware, cost of building material and labour have also risen steeply. The administrative approved sanction dated 6th November 1948 allowed for Rs. 60,000/- for Hukeri and Rs. 49,000/- for Bailhongal for these items, which habe now to be revised to Rs. 93,000/- and Rs. 85,200/- respectively.

Since submitting the first revised estimates for transmission and distribution line materials under this office letter No. Elg.356/6530 of 12th April 1950, the prices of copper, steel and rubber have shot up. The price for copper wire has been estimated 20% higher than the last year's rate contract rate for the same in the absence of a new rate contract and in view of the shortage of raw materials. For similar reasons, the rate for V.I.R.cables has been estimate 33% higher than last yeaf's rate-contract rate.

A comparative statement of the cost of these schemes unde each sub-estimate administratively approved by the Governmer and as now worked out is enclosed vide statement No.I for Hukeri and I-A for Bailhongal.

The increase in interest and depreciation xx charges on account of higher capital cost and larger operation and maintenance charges due to :-

(a) the price of fuel-oil being about Rs. 250/- per ton at site against Rs. 165/- per ton assumed previously in the administratively approved estimates and

(b) the increased charges on establishment due to increased cost of labour, necessitate a revision; also of the Revenue Forecast on the basis of which the scheme was administratively approved.

The tariff rates assumed for calculating revenue are therefore taken as those which have been sanctioned by the Government for Ratnagiri District and which are inforce from 1st March 1951.

The Revenue forecast for the first ten years worked out on the above basis is shown in statement II for Hukeri and II-A for Bailhongal. From these forecasts it will be seen that like original proposal with old tariff the scheme for Hukeri is showing profit in the tenth year of operation with the new tariff and that for Bailhongal is showing a loss. But as was pointed out in the original proposal the schemes for Hukeri and Bailhongal have to be considered together and when so done the loss at Bailhongal is wiped out and the schemes jointly are expected to show a profit of Rs. 10,671/- in the tenth year of operation.

Since both the capital cost and Revenue forecast of the scheme have materially changed, revised administrative approval to the scheme is necessary, which may kindly be accorded. It is necessary to mention that in view of xxx the frequent fluctuations in the present market conditions, the rates assumed in the estimates for materials yet to be ordered are only those as are now known and therefore to be treated as approximate."

RESOLUTION: The revised estimates for the electrificatior of the following towns in the Belgaum District are approved administratively as shown below:-

Electrification of :-	Revised estimated cost. Rs.
(1) Hukeri, Sankeshwar, Chikodi, Konnur and Gokak.	18,27,422
(2) Bailhongal.	5,16,442

2....

2. Expenditure on these schemes during the current year should ~~xx~~ not exceed the sanctioned grant of Rs. 5,97,700/- (in the aggregate) for them under the head "81-A Capital Outlay on Electricity Schemes - Post War Reconstruction and Development Programme".

By order of the Governor of Bombay,

(K. V. Joglekar)
Deputy Secretary to Government.

G.R., No. GBL 1551, P.W.D., dated the 28th August 1951.

The Finance Department.
The Development Department.
The Revenue Department.
The Local Self Government and Public Health Department.
The Collector of Belgaum.
The Chief Engineer, Bombay Electric Grid (with plan and estimate).
The Superintending Engineer, Southern Circle.
The Electrical Engineer to Government.
The Executive Engineer, Poona Electrical Division.
The Accountant General, Bombay.

No. of 1951

Copy forwarded for information and guidance to.

Accompaniment to Government Resolution, Public Works Department No. GBL 1551, dated the 28th August 1951.

Proposed Diesel Electric Scheme for the towns of Hukeri, Sankeshwar, Chikodi, Konnur and Gokak in Belgaum District.

Features of the Towns:-

Hukeri:- The town of Hukeri is in Hukeri Taluka and is connected by an all weather road from Gokak to Sankeshwar. The nearest Railway Station is Hukeri Road which is 11 miles to the east of Hukeri. The total area covered by the town within panchayat limits is 0.156 square mile.

Sankeshwar:- The town of Sankeshwar~~xx~~ is in Hukeri Taluka is about 8 miles to the west of Hukeri town. It is a commercial town situated on the Poona-Bangalore Road, the total area covered by it being 0.17 square mile.

Chikodi:- The town of Chikodi is in Chikodi Taluka. The nearest railway station is Chikodi Road, 11 miles to the east of the town. The total area covered by the twon is 0.175 square miles.

Konnur:- The town of Konnur is in Gokak Taluka, the nearest Railway Station being Gokak Road, 4 mile to the West of the town. The total area covered by the town is 0.05 square mile.

Gokak.....

Gokak:- The town of Gokak is in Gokak Taluka, the nearest Railway Station being Gokak Road, 7 miles to the west of the town. Gokak being a trade centre is connected with other important towns in Belgaum District by all weather roads. The town covers an area of 0.36 square mile.

2. Population:-

Hukeri:- The population of Hukeri was 7,700 in 1941.

Sankeshwar:- The population of Sankeshwar was 11,169 in 1941.

Chikodi:- The population of Chikodi was 10,700 in 1941.

Konnur:- The population of Konnur was 5,000 in 1941.

Gokak:- The population of Gokak was 13,826 in 1941.

3. Scope of Electrical Development:-

As a part of the first stage of electrical development under the post war reconstruction schemes in the State, Government have approved the electrification of these five towns. This proposal provides for the installation of a power station at Hukeri with the necessary equipment for generating electricity at 400/440 volts, 50 cycles, A.C. and stepping up this voltage to 11 KV, transmission to the transformer substations at 11 KV and distribution for domestic, industrial and street lighting purposes in the important parts of the towns at 400/230 volts. Details of the scheme are as under:-

(a) Power House:- The land necessary for the building of the power station and laying out the necessary auxiliaries will be acquired at the North Western end of the town. The power station building and layout of the machinery to be installed inside the building will be as shown in Drawing No. DS.II/195 enclosed.

(b) Generation:- In the initial stage, one diesel engine alternator set of 200 kW and two of 100 kW each will be installed with the necessary auxiliaries. With the growth of the load, it is proposed to install and an additional set when necessary later. Though the cost of this extension is not provided in this estimate, the design of the power station building has been made so as to accommodate the fourth set.

(c) Outdoor step-up substation:- The voltage is stepped up to 11,000 Volts by the installation of 2 Nos. of 200 kVA. transformers, 420/11,000 volts in the power house compound.

(d) Transmission:- From the step-up station in the power house, two 11 kV feeders are taking out, one along the main road to feed transformer substation in the load centres in Hukeri town and the other branching off to feed Transformer sub-stations in the load centres in Sankeshwar, Chikodi, Konnur and Gokak towns. The feeders will be run on rail poles 50/60 lbs section. The conductors will be of 6 SWG. copper.

(e) Distribution:- The pole mounted outdoor transformer sub-stations of capacities of 75,50-25 kVA will be at the load centres of the towns. From each of these substations, a three phase four wire distribution will be taken over the important streets of the town to feed industrial and

domestic

domestic consumers. The distribution lines will be taken wherever possible on the same poles carrying 11 kV lines and singly along routes where no H.T.line is taken. Copper conductors of different sizes suitable for giving proper voltage regulation on the different feeders will be used. A separate phase wire from each substation is provided for street light conductors, the operation of which will be controlled at the powerhouse and substations. Guarding between H.T. and L.T.lines, and L.T.lines and the ground is also provided.

(f) Service connections:- On a moderate estimate, it is anticipated that 1333 domestic consumers, 441, bazar lamps, 50 industrial loads, and 590 street lights will be connected up during the first five years of operation. This includes the cost to the Government on such connections.

(g) Testing Apparatus:- The estimate includes the provision of necessary workshop and other tools for the power station and transmission and distribution lines and also the important instruments required for the oper tion and maintenance of the installation.

VMW.
28/8/51.

Shri Suave if spoken
31/8/51
Necessary note has been
made in the draft note
No 9(22)/51-31 Dtd [illegible]
(File No [illegible])